

Abstract

The present invention relates to an anti-microbial packaging polymer and its method of use, and more particularly to a contact anti-microbial such as quaternary ammonium and phosphonium salts covalently bound to a polymeric material that may be suitable in a variety of applications such as film and container packaging of foodstuffs, cosmetics, medical equipment and devices, environmental, hygienic and sanitary applications, as well as other consumer and commercial use. This anti-microbial polymer has the benefit of being bactericidal, fungicidal, and/or viricidal. For example, this anti-microbial feature may result in additional shelf life of the foodstuff contained in the anti-microbial packaging polymer of the present invention.